



PCT

## RAW SEQUENCE LISTING

DATE: 08/16/2004

PATENT APPLICATION: US/10/018,009A

TIME: 17:10:33

Input Set : N:\FATIMA\10018009.txt

Output Set: N:\CRF4\08162004\J018009A.raw

3 <110> APPLICANT: DSM N.V.

5 <120> TITLE OF INVENTION: Genes encoding enzymes in the biosynthesis of pimaricin and applications thereof

6

W--> 7 <130> FILE REFERENCE: S-2959

9 <140> CURRENT APPLICATION NUMBER: 10/018,009A

C--> 10 <141> CURRENT FILING DATE: 2001-12-14

12 <160> NUMBER OF SEQ ID NOS: 14

14 <170> SOFTWARE: PatentIn Ver. 2.1

16 <210> SEQ ID NO: 1

17 <211> LENGTH: 5544

18 <212> TYPE: DNA

19 <213> ORGANISM: Streptomyces natalensis

21 <220> FEATURE:

22 <221> NAME/KEY: CDS

23 <222> LOCATION: (1)..(5544)

25 <400> SEQUENCE: 1

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28	1				5					10				15			
30	acc	gcg	cat	gga	ggg	ggt	ggc	ttc	aca	ctg	cct	gct	gtg	ttc	gag	gcc	96
31	Thr	Ala	His	Gly	Gly	Gly	Phe	Thr	Leu	Pro	Ala	Val	Phe	Glu	Ala		
32				20			25				30						
34	gcc	gtg	gaa	tcc	gcc	ccc	gac	gca	gtg	gcc	ctc	gtc	gac	ggc	acc	gtt	144
35	Ala	Val	Glu	Ser	Ala	Pro	Asp	Ala	Val	Ala	Leu	Val	Asp	Gly	Thr	Val	
36		35					40				45						
38	cct	gga	cct	ggg	cgc	atg	tgg	cgc	gca	gac	gtc	gat	gcg	ctg	gcc	cgc	192
39	Pro	Gly	Pro	Gly	Arg	Met	Trp	Arg	Ala	Asp	Val	Asp	Ala	Leu	Ala	Arg	
40		50				55				60							
42	ggg	ttg	cag	gag	tcg	ggt	atc	gca	ccc	ggt	gac	gtg	gtg	gcg	gtg	cgg	240
43	Gly	Leu	Gln	Glu	Ser	Gly	Ile	Ala	Pro	Gly	Asp	Val	Val	Ala	Val	Arg	
44	65				70			75			80						
46	ctg	ccg	aac	tgc	ggg	agg	ttt	ccc	acc	ctg	cac	ctg	gcc	gtc	gcg	gcc	288
47	Leu	Pro	Asn	Cys	Gly	Arg	Phe	Pro	Thr	Leu	His	Leu	Ala	Val	Ala	Ala	
48			85				90				95						
50	gtc	gga	gcg	gta	ctg	ctg	ccc	atc	cac	cag	ggc	acc	ccg	ctc	ccg	gag	336
51	Val	Gly	Ala	Val	Leu	Leu	Pro	Ile	His	Gln	Gly	Thr	Pro	Leu	Pro	Glu	
52			100				105				110						
54	gtc	gac	gcg	ctg	ctg	acc	cgg	gcg	gaa	ccc	gcc	ctt	ctc	gtc	ctg	tcg	384
55	Val	Asp	Ala	Leu	Leu	Thr	Arg	Ala	Glu	Pro	Ala	Leu	Leu	Val	Leu	Ser	
56		115				120					125						
58	gcc	gcc	ggg	agc	gac	ggc	ctg	gcg	acg	gcc	cgt	tcg	ctt	ctg	gag	agc	432
59	Ala	Ala	Gly	Ser	Asp	Gly	Leu	Ala	Thr	Ala	Arg	Ser	Leu	Leu	Glu	Ser	
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64	145					150					155					160	
66	gag	tcc	gga	tcc	gtc	gga	ggg	gag	tca	gga	tcc	ggg	cgt	cgg	tcg		528
67	Glu	Ser	Gly	Ser	Val	Gly	Gly	Gly	Glu	Ser	Gly	Ser	Gly	Arg	Arg	Ser	
68					165				170					175			
70	ctg	gac	ggg	ctg	ctg	gcc	ggc	tgg	gcg	ggc	agc	ggg	ccc	cgg	ccg	gtg	576
71	Leu	Asp	Gly	Leu	Leu	Ala	Gly	Trp	Ala	Gly	Ser	Gly	Pro	Arg	Pro	Val	
72				180				185					190				
74	gac	gtc	acc	ccc	gat	atg	ccg	ctc	gtt	ctc	gtc	ccc	tcg	tcc	ggg	acg	624
75	Asp	Val	Thr	Pro	Asp	Met	Pro	Leu	Val	Leu	Val	Pro	Ser	Ser	Gly	Thr	
76			195				200						205				
78	gtc	tcg	gca	cgg	ccc	aaa	ctg	tgt	gtg	cac	agc	cac	gac	ggg	ctg	ctg	672
79	Val	Ser	Ala	Arg	Pro	Lys	Leu	Cys	Val	His	Ser	His	Asp	Gly	Leu	Leu	
80	210					215						220					
82	tcg	aac	acc	gca	gcc	gtc	acc	gcc	gag	gcc	gcc	gac	gcc	ttc	gac	ggg	720
83	Ser	Asn	Thr	Ala	Ala	Val	Thr	Ala	Glu	Ala	Ala	Asp	Ala	Phe	Asp	Gly	
84	225				230				235						240		
86	ccg	gtc	ctc	acg	gcc	tgc	ccg	atg	acc	cat	ctg	ttc	ggc	ctc	cag	tcc	768
87	Pro	Val	Leu	Thr	Ala	Cys	Pro	Met	Thr	His	Leu	Phe	Gly	Leu	Gln	Ser	
88				245				250					255				
90	ctg	cac	gcg	gcg	ctg	ttc	gcc	gcc	tgc	acg	cag	gtc	ctg	ctc	acc	ggc	816
91	Leu	His	Ala	Ala	Leu	Phe	Ala	Ala	Cys	Thr	Gln	Val	Leu	Leu	Thr	Gly	
92				260				265					270				
94	tgg	gac	gtg	gac	cgc	ttc	ctg	gaa	cag	gct	cgg	gag	cac	ggc	ccc	cgt	864
95	Trp	Asp	Val	Asp	Arg	Phe	Leu	Glu	Gln	Ala	Arg	Glu	His	Gly	Pro	Arg	
96			275				280					285					
98	gtc	gtg	ttc	gcc	gtg	ccc	gcc	caa	ctg	cgg	gac	gtc	gtg	aca	cga	ctg	912
99	Val	Val	Phe	Ala	Val	Pro	Ala	Gln	Leu	Arg	Asp	Val	Val	Thr	Arg	Leu	
100	290					295						300					
102	gcc	agg	acc	ggc	gaa	ccg	gcg	ggc	ttc	acg	ccg	tac	cag	gtg	cgt	acc	960
103	Ala	Arg	Thr	Gly	Glu	Pro	Ala	Gly	Phe	Thr	Pro	Tyr	Gln	Val	Arg	Thr	
104	305				310					315					320		
106	gcg	ggg	gcc	gcc	gtc	gcg	ccc	gcg	ctc	gcc	gta	cgg	gta	cgc	gcc	gtc	1008
107	Ala	Gly	Ala	Ala	Val	Ala	Pro	Ala	Leu	Ala	Val	Arg	Val	Arg	Ala	Val	
108				325				330					335				
110	ctc	gac	tgc	gaa	ctg	gtc	gtg	gtg	tgg	ggg	atg	tcc	gag	atc	ggc	acc	1056
111	Leu	Asp	Cys	Glu	Leu	Val	Val	Val	Trp	Gly	Met	Ser	Glu	Ile	Gly	Thr	
112				340				345					350				
114	ggc	acc	cgc	acc	cgg	gcc	cac	cac	ccc	gac	ggc	tgt	gtg	gga	gag	ccg	1104
115	Gly	Thr	Arg	Thr	Arg	Ala	His	His	Pro	Asp	Gly	Cys	Val	Gly	Glu	Pro	
116			355				360						365				
118	gtc	agc	ggg	gtg	gac	gtg	cgc	gtc	gtc	gac	gag	cac	ggc	caa	gag	tgc	1152
119	Val	Ser	Gly	Val	Asp	Val	Arg	Val	Val	Asp	Glu	His	Gly	Gln	Glu	Cys	
120	370				375							380					
122	gcg	gcg	gac	gag	agg	ggg	gaa	ctc	cag	tac	cgg	ggg	cca	ggg	ttg	ttc	1200
123	Ala	Ala	Asp	Glu	Arg	Gly	Glu	Leu	Gln	Tyr	Arg	Gly	Pro	Gly	Leu	Phe	
124	385				390				395				400				
126	cgc	ggc	tat	ttc	cgc	gaa	ccg	gag	ctg	acg	cgc	tcg	gcc	ctc	acc	gac	1248

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131	Asp	Gly	Trp	Leu	Arg	Thr	Gly	Asp	Leu	Ala	Thr	Val	Asp	Ala	Asp	Gly	
132					420					425					430		
134	gtg	gtg	gtg	ctg	cac	ggc	cgg	gcg	gcc	gag	ctg	atc	aat	acg	ggg	ggc	1344
135	Val	Val	Val	Leu	His	Gly	Arg	Ala	Ala	Glu	Leu	Ile	Asn	Thr	Gly	Gly	
136					435					440					445		
138	cgg	aag	ttc	agc	gcc	ggc	gag	gtc	gag	gga	ctg	ctc	tcc	ggc	ttt	acg	1392
139	Arg	Lys	Phe	Ser	Ala	Gly	Glu	Val	Glu	Gly	Leu	Leu	Ser	Gly	Phe	Thr	
140		450								455					460		
142	gac	ctg	ggc	cgg	ctg	gcc	gtc	gtc	ggc	gca	ccg	gac	gac	cgg	ctc	ggg	1440
143	Asp	Leu	Gly	Pro	Leu	Ala	Val	Val	Gly	Ala	Pro	Asp	Asp	Arg	Leu	Gly	
144	465						470					475				480	
146	gag	tac	cgg	tgc	ctg	gtc	gtg	acc	gac	cac	gcg	gac	ggc	acc	atc	ggc	1488
147	Glu	Tyr	Pro	Cys	Leu	Val	Val	Thr	Asp	His	Ala	Asp	Gly	Thr	Ile	Gly	
148					485					490					495		
150	ctg	agc	gag	gtg	acc	gcg	ttc	ctg	cgc	cgg	ctg	ggg	ctc	gcc	gac	cac	1536
151	Leu	Ser	Glu	Val	Thr	Ala	Phe	Leu	Arg	Arg	Leu	Gly	Leu	Ala	Asp	His	
152					500					505					510		
154	aag	atc	ccc	ctc	gaa	ctg	gtc	acc	gtg	cgc	gag	ctt	ccc	ttc	tcc	cct	1584
155	Lys	Ile	Pro	Leu	Glu	Leu	Val	Thr	Val	Arg	Glu	Leu	Pro	Phe	Ser	Pro	
156					515					520					525		
158	gcc	ggg	aag	ctc	gac	cgc	ggg	gcg	ctc	aag	cgg	ctg	ctc	gcc	aac	ctt	1632
159	Ala	Gly	Lys	Leu	Asp	Arg	Gly	Ala	Leu	Lys	Arg	Leu	Leu	Ala	Asn	Leu	
160		530								535					540		
162	gcg	gag	gtg	tcc	gtt	cgg	gcc	cgt	ctc	ggc	gcg	gtc	ccg	ccc	tac	acg	1680
163	Ala	Glu	Val	Ser	Val	Pro	Ala	Arg	Leu	Gly	Ala	Val	Pro	Pro	Tyr	Thr	
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166	gcc	gag	gag	gcg	ctg	gac	ctc	gta	cgc	gac	tgc	gtc	ggc	cgg	gtg	ctc	1728
167	Ala	Glu	Glu	Ala	Leu	Asp	Leu	Val	Arg	Asp	Cys	Val	Gly	Arg	Val	Leu	
168					565					570					575		
170	cgt	tac	ggc	ggc	gcg	gcc	gtc	ccc	ttc	ccc	ccg	gac	aag	gac	ttc	ttc	1776
171	Arg	Tyr	Gly	Gly	Ala	Ala	Val	Pro	Phe	Pro	Pro	Asp	Lys	Asp	Phe	Phe	
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174	tcc	ccg	gac	aag	gac	ttc	cgc	cag	ctc	ggc	ctg	gac	tcc	atc	ggc	gcg	1824
175	Ser	Pro	Asp	Lys	Asp	Phe	Arg	Gln	Leu	Gly	Leu	Asp	Ser	Ile	Gly	Ala	
176					595					600					605		
178	gtg	cgg	ctg	cgg	aat	ctg	ctg	cgg	gag	gag	acc	ggg	ctg	ccg	ctc	ccg	1872
179	Val	Arg	Leu	Arg	Asn	Leu	Leu	Arg	Glu	Glu	Thr	Gly	Leu	Pro	Leu	Pro	
180		610								615					620		
182	gcc	acc	ctg	gcc	ttc	gac	tcc	ccc	act	ccg	cga	gcc	gtc	gcg	cgc	gtc	1920
183	Ala	Thr	Leu	Ala	Phe	Asp	Ser	Pro	Thr	Pro	Arg	Ala	Val	Ala	Arg	Val	
184	625						630					635				640	
186	ctg	gcc	gag	cag	gag	gag	ccg	tcc	cag	gac	gag	ccg	agg	gag	aac	ccg	1968
187	Leu	Ala	Glu	Gln	Glu	Pro	Ser	Gln	Asp	Glu	Pro	Arg	Glu	Asn	Pro		
188					645					650					655		
190	gcg	gac	ggg	gcc	gac	ccg	gtg	gcg	atc	gtg	ggc	atg	gcc	tgc	cgg	ctg	2016
191	Ala	Asp	Gly	Ala	Asp	Pro	Val	Ala	Ile	Val	Gly	Met	Ala	Cys	Arg	Leu	

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195	Pro Gly Gly Ala Asp Ser Pro Asp Ala Leu Trp Glu Leu Leu Ala Asp							
196		675		680		685		
198	ggg acc gac gcg atg tcc ccc ttc ccc acg gac cgc ggc tgg gac ctg	2112						
199	Gly Thr Asp Ala Met Ser Pro Phe Pro Thr Asp Arg Gly Trp Asp Leu							
200		690		695		700		
202	gac cgg ctg ttc gac gag gat gcc gac cgc ccg ggt acc tcg tac gcc	2160						
203	Asp Arg Leu Phe Asp Glu Asp Ala Asp Arg Pro Gly Thr Ser Tyr Ala							
204	705		710		715		720	
206	cgc gaa ggc ggc ttc ctg cac gac gcg ggc gac ttc gac gcg ggc ttc	2208						
207	Arg Glu Gly Gly Phe Leu His Asp Ala Gly Asp Phe Asp Ala Gly Phe							
208		725		730		735		
210	ttc ggc ctg tcg gac cag gag gcg acg gcg acc gat ccg cag cag cgg	2256						
211	Phe Gly Leu Ser Asp Gln Glu Ala Thr Ala Thr Asp Pro Gln Gln Arg							
212		740		745		750		
214	ctg ctt ctg gag gcg gcc tgg gag acc ttc gag cgg gcg ggc atc gac	2304						
215	Leu Leu Leu Glu Ala Ala Trp Glu Thr Phe Glu Arg Ala Gly Ile Asp							
216		755		760		765		
218	ccg cag tcc ctg agg gga agc cgt acg ggc gtg ttc acg ggc gcg atg	2352						
219	Pro Gln Ser Leu Arg Gly Ser Arg Thr Gly Val Phe Thr Gly Ala Met							
220		770		775		780		
222	gac cgc ggc tat gga acc agc gcg tcc gcc gcg ccc agc gca tgg gag	2400						
223	Asp Arg Gly Tyr Gly Thr Ser Ala Ser Ala Ala Pro Ser Ala Trp Glu							
224	785		790		795		800	
226	agc atg ctc atc acc ggg acc gcc ggc agc gcg gtc tcg ggg cgc atc	2448						
227	Ser Met Leu Ile Thr Gly Thr Ala Gly Ser Ala Val Ser Gly Arg Ile							
228		805		810		815		
230	gcc tac acc tac ggg ctc gaa ggc ccc gcg ctg acg gtc gac acc gcc	2496						
231	Ala Tyr Thr Tyr Gly Leu Glu Gly Pro Ala Leu Thr Val Asp Thr Ala							
232		820		825		830		
234	tcc tcg tcc tcc ctc gtc gcc ctg cat ctg gcc tgc cgg tcg ctg cgc	2544						
235	Ser Ser Ser Ser Leu Val Ala Leu His Leu Ala Cys Arg Ser Leu Arg							
236		835		840		845		
238	tcg ggc gag acc gac ctg gcg ctg gcc ggc ggc gtc acc gtc atg gcg	2592						
239	Ser Gly Glu Thr Asp Leu Ala Leu Ala Gly Gly Val Thr Val Met Ala							
240		850		855		860		
242	acc ccg gcg ccc ttc gca cac ttc tcc ccg ctg cgc gcg ctg tcc ccc	2640						
243	Thr Pro Ala Pro Phe Ala His Phe Ser Arg Leu Arg Ala Leu Ser Pro							
244	865		870		875		880	
246	gac tcc cgc tcc atg gcg tac gcg gac gcc gcg aac ggc tcg gcg tgg	2688						
247	Asp Ser Arg Ser Met Ala Tyr Ala Asp Ala Ala Asn Gly Ser Ala Trp							
248		885		890		895		
250	tcg gag ggc gcg ggg ctg ctt ctg ctg gag ccg ctg agc gac gcc ccg	2736						
251	Ser Glu Gly Ala Gly Leu Leu Leu Leu Glu Arg Leu Ser Asp Ala Arg							
252		900		905		910		
254	cgc aac gga cac cgt gtc ctg gcg ctc gta ccg ggc tcc gcc gtg aat	2784						
255	Arg Asn Gly His Arg Val Leu Ala Leu Val Arg Gly Ser Ala Val Asn							
256		915		920		925		

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259 Gln Asp Gly Ala Ser Asn Gly Leu Thr Ala Pro Ser Gly Pro Ala Gln
260 930 935 940
262 cag cgc gtc atc cgc cag gcc ctg gcc gac gcc ggg ctg acg ccg cag 2880
263 Gln Arg Val Ile Arg Gln Ala Leu Ala Asp Ala Gly Leu Thr Pro Gln
264 945 950 955 960
266 gac gtg gac gcc gtg gag ggg cac ggc acc ggc acg ccg ctc ggc gac 2928
267 Asp Val Asp Ala Val Glu Gly His Gly Thr Gly Thr Pro Leu Gly Asp
268 965 970 975
270 ccc atc gag gcg cag gcg ctg ctg gcc acg tac ggc caa cag ccg cct 2976
271 Pro Ile Glu Ala Gln Ala Leu Leu Ala Thr Tyr Gly Gln Gln Arg Pro
272 980 985 990
274 gtg gaa cgg ccg ttg tgg ctg ggg tcg gtg aag tcg aac ttc ggg cac 3024
275 Val Glu Arg Pro Leu Trp Leu Gly Ser Val Lys Ser Asn Phe Gly His
276 995 1000 1005
278 aca caa gcc gcc gcc ggg gtc gtc ggc gtc atc aag acg gtg ctc gcg 3072
279 Thr Gln Ala Ala Ala Gly Val Val Gly Val Ile Lys Thr Val Leu Ala
280 1010 1015 1020
282 ctg cgc cac ggc gtc ctg ccg cag acg ctg cac gtg gac gct ccc tcg 3120
283 Leu Arg His Gly Val Leu Pro Gln Thr Leu His Val Asp Ala Pro Ser
284 1025 1030 1035 1040
286 gcc aag gtg gac tgg tcc gcc ggt tcg gta cgg ctg ctg acc gag gcg 3168
287 Ala Lys Val Asp Trp Ser Ala Gly Ser Val Arg Leu Leu Thr Glu Ala
288 1045 1050 1055
290 cgg ccc tgg cca cgg gag agc gga cgt acg cgc cgg gcg ggg gtg tcc 3216
291 Arg Pro Trp Pro Arg Glu Ser Gly Arg Thr Arg Arg Ala Gly Val Ser
292 1060 1065 1070
294 tcg ttc ggg ctc acc ggc acc aac gcg cac gtg atc ctg gag gag gcg 3264
295 Ser Phe Gly Leu Thr Gly Thr Asn Ala His Val Ile Leu Glu Glu Ala
296 1075 1080 1085
298 ccg gga gag gcg gcg gca ggg gcg cgg gcc gag gtt ccc gag gag gcg 3312
299 Pro Gly Glu Ala Ala Ala Gly Ala Arg Ala Glu Val Pro Glu Glu Ala
300 1090 1095 1100
302 cgg tgc gcc tcc tca ccg gct cga ctc ccg gag ccg ccc ggc gac gcg 3360
303 Arg Cys Ala Ser Ser Pro Ala Arg Leu Pro Glu Pro Pro Gly Asp Ala
304 1105 1110 1115 1120
306 gcc gcg ccc tgg gtg ctg tcc gcc cgg agc cgg gcg gcg ctg cgc gcg 3408
307 Ala Ala Pro Trp Val Leu Ser Ala Arg Ser Arg Ala Ala Leu Arg Ala
308 1125 1130 1135
310 cag gcg ctc cgc ctg gcc gac cag gtg gcc gcc gac ccc ggt cta cgg 3456
311 Gln Ala Leu Arg Leu Ala Asp Gln Val Ala Ala Asp Pro Gly Leu Arg
312 1140 1145 1150
314 gcc cag gat gtc gcc cat gcc ctg gcc acc tcc cgt acc ctg cac ccg 3504
315 Ala Gln Asp Val Ala His Ala Leu Ala Thr Ser Arg Thr Leu His Arg
316 1155 1160 1165
318 cac cgg gcc gtc gtc agc ggc tcc gac cgg gca caa atg ctc gcc gcg 3552
319 His Arg Ala Val Val Ser Gly Ser Asp Arg Ala Gln Met Leu Ala Ala
320 1170 1175 1180
322 gca aag cgg ttc ggg ctc ggt gag cgg acc gcg ggc gtc acc ccg gac 3600

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L:7 M:283 W: Missing Blank Line separator, <130> field identifier

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date